



## Microtox® 500 Water Purity Monitoring System

**Azur Environmental manufactures kit for measuring primarily water born pollution. Azur market the Microtox® 500 which can analyze the response of luminescent bacteria that are sensitive to a wide range of toxic effects of typical pollutants.**

### Business Problem

The software that performed the capture and analysis of the luminescence data had been in existence some time and was DOS based. Azur contracted Tessella to study the existing software and then develop a new Windows based version to significantly enhance the appearance and ease of use of this important part of their product line.

The Windows software was to support exactly the same range of test protocols and variations in test parameters as the DOS software while providing a more attractive, intuitive and flexible user interface.

### Tessella Solution

Tessella studied the existing software and then worked with Azur to document their new requirements. This included enhancements to take advantage of the increased capabilities of the Windows environment (for example in displaying and printing graphs).

The client had warned us at the outset that they wished to modify and add requirements as the project developed. However the initial requirements study allowed us to select Visual Basic as the best implementation tool and create a basic architecture with confidence that it would provide a sound platform for development even as requirements changed.

The software was then developed iteratively, with two or three intermediate releases being made for Azur, allowing regular reviews. The intermediate releases allowed Azur to monitor progress, review and comment on the implementation of different features and to perform testing in parallel with the continuing development of the system.



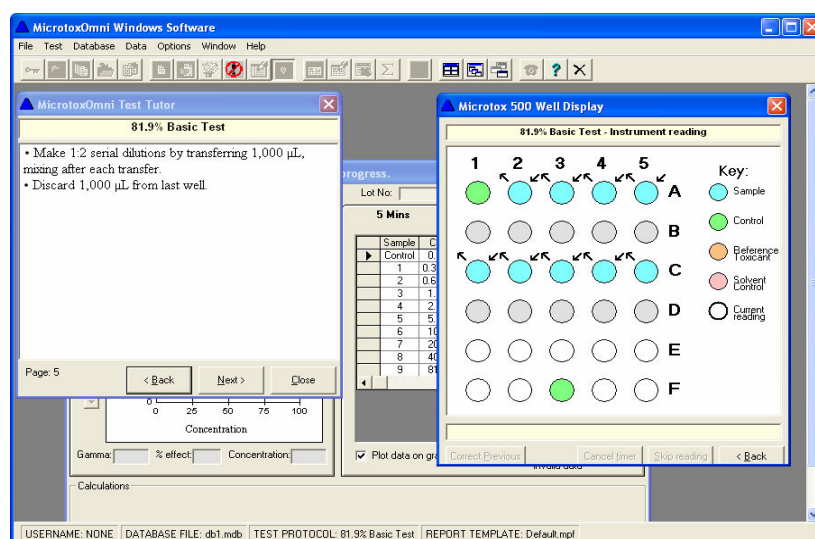
The application allows the user to select between a number of different test protocols for different types and strengths of sample and different test objectives. The user can parameterize the tests e.g. for different numbers of dilutions, starting concentrations, number of controls and number of samples (to fully utilize the analyzer it is possible to perform a number of the simpler tests in parallel). The system also allows Azur to define and distribute new test protocols.

The software prompts the user when to take readings, displays the data both graphically and in table form, allows the user to print reports and save the data to files. The software utilizes graphical, table, database and rich text add-ins to provide considerable functionality quickly and cheaply.

## Results and Benefits

The system has given their product line a considerable face-lift, extending its range, functionality and ease of use.

If you would like to improve the functionality, look or feel of your software, then get in touch with Tessella to see how we can add serious value to your systems.



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